



ARCHITECTURAL "V" RIB PANEL SPECIFICATIONS

1. PRODUCT NAME

American Architectural "V" Rib Panels for wall applications.

2. MANUFACTURER

AMERICAN BUILDINGS COMPANY

1150 State Docks Road
Eufaula, Alabama 36027
Phone: (334) 687-2032

3. PRODUCT DESCRIPTION

These wall panels provide 36" of coverage and reveal a sculptured appearance with semi-concealed fasteners. Rib depth is 1 5/16" on 12" centers.

Basic Use: A wall panel system for new or retrofit construction.

Materials: Architectural "V" Rib wall panels are available in 29, 26, 24 gage 80,000 psi or 22 gage 50,000 psi and either G90 zinc-coated (galvanized) steel or aluminum-zinc alloy-coated (AZ50 or AZ55) steel. Pre-painted panels have American Buildings Company's SmartKote (Kynar 500®) or Silicone Modified Polyester Finish. An embossed finish is available as an option. Architectural "V" Rib panels are attached to the secondary framing members by self-drilling carbon steel screws, No. 12 x 1-1/4" hex washer head, cadmium or zinc plated. Architectural "V" Rib panel sidelaps are stitched with self-drilling carbon steel screws, No. 14 X 3/4" cadmium or zinc plated. Fasteners are normally color coordinated with a premium coating system that protects against corrosion and weathering. Maximum insulation thickness allowed with these panels is 6".

4. TECHNICAL DATA

The Architectural "V" Rib panel has been tested in accordance with Air Infiltration, ASTM E 283 and Water Penetration, ASTM E331. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

5. INSTALLATION

Installation should be performed in accordance with American Buildings Company's manuals and building erection drawings, and should be by a qualified installer using proper tools and equipment. Systems are installed by American Buildings Company Authorized Builders.

6. AVAILABILITY

For availability, contact:

AMERICAN BUILDINGS COMPANY

7. WARRANTY

Thirty-five Year material warranties are available.

8. MAINTENANCE

Only normal routine maintenance is required over the life of the panels.

9. TECHNICAL SERVICES

For information, contact:

AMERICAN BUILDINGS COMPANY

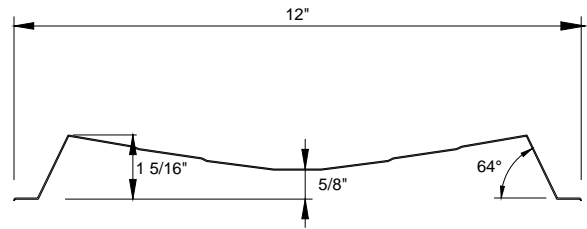
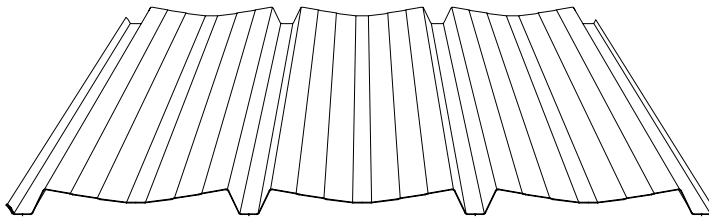
10. PRODUCT NOTES

American Buildings Company reserves the right to revise all standard specifications and information. American Buildings Company regularly updates its published "Standard Specifications" on the American Buildings web site, www.americanbuildings.com, which supercede and replace any previously published standard specifications of American Buildings Company.

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PANEL PROFILE

PARTIAL CROSS SECTION

| Engineering Properties of American Buildings Company Architectural "V" Rib Panel | | | | | | | | | | | |
|--|-----------------|-------------------------|--------------------|---|-----------------------------|-----------------------------|----------|-----------------------------|-----------------------------|----------|--------|
| Designated Gage of Steel | Steel Yield KSI | Base Metal Thick. (In.) | Total Thick. (In.) | Panel Weight (lbs. / ft. ²) | Top In Compression | | | Bottom In Compression | | | Fb KSI |
| | | | | | Ix (In. ⁴ / ft.) | Sx (In. ³ / ft.) | Ma K-IN. | Ix (In. ⁴ / ft.) | Sx (In. ³ / ft.) | Ma K-IN. | |
| 29 Ga. | 80 | 0.0137 | 0.0153 | 0.75 | 0.024 | 0.028 | 1.01 | 0.024 | 0.032 | 1.15 | 36 |
| 26 Ga. | 80 | 0.0177 | 0.0193 | 0.94 | 0.033 | 0.040 | 1.44 | 0.033 | 0.043 | 1.55 | 36 |
| 24 Ga. | 80 | 0.0225 | 0.0241 | 1.17 | 0.043 | 0.053 | 1.91 | 0.043 | 0.056 | 2.02 | 36 |
| 22 Ga. | 50 | 0.0300 | 0.0316 | 1.54 | 0.057 | 0.074 | 2.22 | 0.060 | 0.076 | 2.28 | 30 |

| Gage of Panel | No. of Spans | Load Type | Maximum Total Uniform Load in PSF | | | | | | | | |
|---------------|--------------|-----------|-----------------------------------|------|------|------|------|------|------|------|--|
| | | | Span Lengths, Ft. | | | | | | | | |
| | | | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 6.00 | 7.00 | 7.33 | |
| 29 Ga. | 1 | POS | 61 | 52 | 41 | 32 | 26 | 15 | 9 | 8 | |
| | | NEG | -79 | -59 | -46 | -35 | -26 | -15 | -9 | -8 | |
| | 2 | POS | 54 | 47 | 41 | 36 | 29 | 21 | 15 | 14 | |
| | | NEG | -49 | -42 | -37 | -32 | -26 | -18 | -13 | -12 | |
| | 3 | POS | 62 | 53 | 46 | 41 | 36 | 26 | 18 | 15 | |
| | | NEG | -56 | -48 | -42 | -37 | -32 | -23 | -17 | -15 | |
| | 4 | POS | 60 | 51 | 45 | 40 | 34 | 24 | 18 | 16 | |
| | | NEG | -54 | -46 | -40 | -36 | -30 | -21 | -16 | -14 | |
| 26 Ga. | 1 | POS | 104 | 77 | 59 | 47 | 35 | 20 | 13 | 11 | |
| | | NEG | -111 | -82 | -63 | -47 | -35 | -20 | -13 | -11 | |
| | 2 | POS | 88 | 75 | 63 | 50 | 40 | 28 | 21 | 19 | |
| | | NEG | -64 | -55 | -48 | -42 | -38 | -26 | -19 | -18 | |
| | 3 | POS | 100 | 86 | 75 | 62 | 50 | 35 | 24 | 21 | |
| | | NEG | -72 | -62 | -54 | -48 | -43 | -33 | -24 | -21 | |
| | 4 | POS | 96 | 82 | 72 | 58 | 47 | 33 | 24 | 22 | |
| | | NEG | -70 | -60 | -52 | -46 | -42 | -31 | -23 | -21 | |
| 24 Ga. | 1 | POS | 139 | 102 | 79 | 62 | 45 | 26 | 17 | 14 | |
| | | NEG | -146 | -108 | -83 | -62 | -45 | -26 | -17 | -14 | |
| | 2 | POS | 137 | 107 | 82 | 65 | 53 | 37 | 27 | 25 | |
| | | NEG | -81 | -69 | -61 | -54 | -49 | -35 | -26 | -24 | |
| | 3 | POS | 156 | 132 | 102 | 81 | 66 | 46 | 31 | 27 | |
| | | NEG | -92 | -79 | -69 | -61 | -55 | -44 | -31 | -27 | |
| | 4 | POS | 150 | 124 | 96 | 76 | 62 | 43 | 32 | 29 | |
| | | NEG | -89 | -76 | -66 | -59 | -53 | -41 | -30 | -27 | |
| 22 Ga. | 1 | POS | 161 | 119 | 92 | 72 | 59 | 34 | 22 | 19 | |
| | | NEG | -166 | -122 | -94 | -74 | -60 | -36 | -23 | -20 | |
| | 2 | POS | 164 | 121 | 93 | 74 | 60 | 42 | 31 | 28 | |
| | | NEG | -114 | -98 | -86 | -72 | -59 | -41 | -30 | -27 | |
| | 3 | POS | 202 | 150 | 116 | 92 | 75 | 52 | 38 | 35 | |
| | | NEG | -130 | -111 | -98 | -87 | -73 | -51 | -37 | -34 | |
| | 4 | POS | 190 | 141 | 109 | 86 | 70 | 49 | 36 | 33 | |
| | | NEG | -125 | -107 | -94 | -83 | -68 | -48 | -35 | -32 | |

- The panels were checked for bending, shear, combined bending and shear, deflection, web crippling, and panel pullover. Deflection was limited to span/120
- Section Properties have been calculated in accordance with the 2001 *North American Specification for the Design of Cold-Formed Steel Structural Members*.
- Minimum yield strength of 29, 26 and 24 gage steel is 80,000 psi. Minimum yield strength of 22 gage steel is 50,000 psi.
- Steel panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness was used in determining section properties.
- Positive load (POS) is applied inward toward the panel supports and is applied to the outer surface of the full panel cross-section. Negative load (NEG) is in the opposite direction.